



Clever Products for Australian Conditions

Barmac Industries was established in 1955 to fulfil a growing need for products which work under local conditions in a number of markets in the horticultural and urban pest control arenas. There was a clear need for a company which would develop high quality products for some of the smaller areas of the chemical industry, focusing on innovation and service. Barmac listened to their needs and began formulating a wide range of commodity and specialty plant protection and pest control products.

Satisfied clients spread the word and our reputation grew. Soon professionals in the golf course and bowling club markets as well as professional pest control and other areas of amenity horticulture asked for help with their particular problems. Barmac took the challenge and developed a group of fertilizers and pesticides which met the declared needs of sporting and recreational turf. The Barmac brand name rapidly became known for high quality and innovative products, **clever products for Australian conditions.**

Throughout, Barmac remained a private family company with 100% Australian ownership.

History shows and the market knows small can be beautiful. Barmac is a flexible and dynamic enterprise, fiercely focused on quality and service. Better able to find or develop new products and

technologies, we have demonstrated the vigour to introduce them into a market quickly and successfully. We have chosen the best products of our own development, integrated them with trusted and familiar commodity products developed years ago but which still have an important place in professional programs and marketed those with exciting new proprietary products designed to overcome the most difficult problems facing industry.

Into the new millennium the scope of operations has developed to include the agricultural grower seeking quality products. The range includes not only products we manufacture and formulate ourselves but also the product ranges of many overseas organisations. These companies recognise the importance of an alliance with a dynamic, results-focused organisation, especially one which is well known and respected by professionals in industry, both customers and competitors.



- **Turf and Amenity Horticulture**
- **Horticulture and Agriculture**
- **Pest Control and Public Health**
- **Home Garden**

Another clever product from



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BARMAC

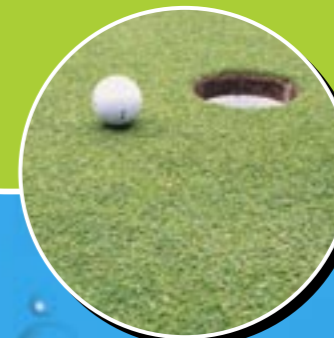
Sure Start

A specially designed planting fertilizer with water storage crystals

 Saves Water

 Provides high quality slow release nutrition

 Contains a unique microbial blend for good soil health



IDEAL FOR PLANTING TREES, POTTED PLANTS, TURF AND ORNAMENTALS.

GIVE YOUR PLANTS A SURE START IN LIFE



Sure Start



SURE START IS A UNIQUE PRODUCT WHICH COMBINES TWO WELL KNOWN AND PROVEN TECHNOLOGIES

- BIO ENHANCED FERTILIZERS
- WATER STORAGE CRYSTALS

This combination packs SURE START with all of the essentials a plant needs in its early life.

1. Slow Release and Organic Fertilizer
2. Standard Release Fertilizer
3. Humic Acid
4. Soil Wetting Agent
5. Microbial Soil Blend
6. Rain Saver Water Storing Crystals

SURE START is a small granular particle. This small particle size ensures a more even spread of product in the area to be treated. This is essential when the root system is still developing and is not capable of drawing nutrients from a wide area of soil.

SLOW RELEASE AND ORGANIC FERTILIZERS

The preparation of the soil surrounding the root zone at the time of planting presents the opportunity to place high quality fertilizer directly where the plant requires it. This opportunity should never be overlooked. SURE START contains high quality Methylene Urea – a market leader in slow release technology – to ensure adequate nutrient is available for the vital establishment period. This is combined with small prilled organic fertilizer to supplement the slow release standard fertilizer as well as promoting better soil structure and providing an initial food source for soil micro organisms.

STANDARD RELEASE FERTILIZER

At the time of planting there is a high and immediate requirement for macronutrients. SURE START accommodates this with a blend of standard fertilizers. These fertilizers are soluble and once dissolved by irrigation water will be absorbed onto the Rain Saver gel. This holds the nutrient within the root zone ensuring it is available for uptake by the plant as required.

SURE START has a low level of phosphorus and does not contain any Chloride based ingredients. This means the product is suitable for use on Australian native plants and salt sensitive ornamental species.

HUMIC ACID

Humic Acid has been long recognised as a means of promoting better soil structure, improving CEC and promoting development of soil micro-organisms. Humic Acid will also chelate trace elements such as Iron, Copper, Manganese and Zinc making them more readily available to the plants.

SOIL WETTING AGENTS

SURE START contains a high quality residual soil wetting agent. This blend of surfactants

offers many benefits at planting time including:

- (a) Prevents water repellency in potting mixes
- (b) Reduces soil sealing due to mechanical drilling of planting holes
- (c) Increases water penetration in sandy and compacted soil

MICROBIAL SOIL BLEND

The collection of bacteria and other microbes in SURE START are scientifically designed to enhance the desirable functions of micro-organisms while displacing some of the less desirable populations, which may be present. SURE START contains specific bacteria to:

- (a) Reduce and displace sodium in the root zone
- (b) Promote Nitrogen fixation and hence more efficient nutrient management
- (c) Solubilise phosphorus reducing the levels in the soil and making this vital nutrient more available to the plant.
- (d) Produce auxins and cytokinin to stimulate a better root system
- (e) Breakdown organic waste in the soil to generate valuable plant nutrients.

RAINSAVER WATER STORING CRYSTALS

Rainsaver water storage crystals is a potassium based organic cross-linked copolymer. Upon contact with water the copolymer absorbs large volumes of water and expands to form a gel-like insoluble substance.

As the water content in the surrounding soil decreases the gel releases some or all of the absorbed water back into the root zone. This cycle of absorbing and releasing irrigation water will occur many times over and will continue for many years. As well as absorbing irrigation water the water storage crystals will also retain essential plant nutrients releasing them back into the soil solution as the moisture and nutrients in the soil decrease. This reduces fertilizer requirements as leaching is reduced and nutrients are held in the root zone where they are utilised by the plant.

SOME BENEFITS OF SURE START

• REDUCED IRRIGATION

The unique combination of soil surfactants and water storage crystals gives the ultimate in water conservation. The soil wetting agent will ensure an even spread of soil moisture throughout the root zone and will reduce surface run off. The water storage crystals will optimise the efficiency of irrigation by absorbing water and then releasing it back when required.

• LONGER and STRONGER ROOT SYSTEM

A constant availability of water and plant nutrients ensures the development of a better root system. With SURE START this is further assisted by utilising scientifically advanced microbiological technology to produce root stimulating chemicals which further strengthen and expand the root system.

• REDUCED FERTILIZER NEEDS

The blend of slow release chemical and organic nutrients will continue to feed plants throughout the establishment period, while the readily available nutrients give an initial growth burst. The water storage crystals then retain unused nutrients for their whole life reducing leaching and keeping them in the root zone.

• QUICKER PLANT ESTABLISHMENT

By constantly providing adequate moisture and plant nutrients SURE START will promote quicker plant establishment than using water storage crystals alone.



USING SURE START

IN GROUND PLANTING OF TREES AND ORNAMENTALS

(Including commercial establishment of orchards and vineyards)

The quantity of SURE START to be used is determined by the size of the original pot from which the plant is transplanted. It is ideal to mix SURE START with the soil to be returned to the planting hole. This ensures even distribution throughout the root zone. If placing SURE START directly into bottom of hole it is essential to ensure it is spread evenly over the base area. DO NOT heap product.

POT DIAMETER	QUANTITY OF SURE START
150mm (6")	13g
200mm (8")	25g (1 heaped scoop)
250mm (10")	50g (2 heaped scoops)
300mm (12")	100g (4 heaped scoops)
400mm (16")	150g (5 heaped scoops)
500mm (20")	300g (10 heaped scoops)

IN POTTING MIXES

Suitable for incorporation into potting mixes for all situation including seedling establishment and potting up of nursery stock, SURE START will promote better plant growth and reduce frequency of irrigation applications

Mix 25g (1 heaped scoop) of SURE START with every 5 litres of potting mix and plant normally.

ESTABLISHING TURF

For best results it is essential that SURE START be thoroughly incorporated into the top 25-50mm of soil. Use 5kg of SURE START per 100m². (500kg per Ha)

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- LONGER & STRONGER ROOT SYSTEM
- REDUCED FERTILIZER NEEDS
- QUICKER PLANT ESTABLISHMENT



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